



Nanoscience: Colloidal and Interfacial Aspects (Surfactant Science)

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The common perception is that nanoscience is something entirely new, that it sprung forth whole and fully formed like some mythological deity. But the truth is that like all things scientific, nanoscience is the natural result of the long evolution of scientific inquiry. Following a historical trail back to the middle of the 19th century, nanoscience is the inborn property of colloid and interface science. What's important today is for us to recognize that nanoparticles are small colloidal objects. It should also be appreciated that over the past decades, a number of novel nanostructures have been developed, but whatever we call them, we cannot forget that their properties and behavior are still in the realm of colloid and interface science.

However one views it, the interest and funding in nano-science is a tremendous opportunity to advance critical research in colloid chemistry. **Nanoscience: Colloidal and Interfacial Aspects** brings together a prominent roster of 42 leading investigators and their teams, who detail the wide range of theoretical and experimental knowledge that can be successfully applied for investigating nanosystems, many of which are actually well-known colloidal systems.

This international grouping of pioneering investigators from academia and industry use these pages to provide researchers of today and tomorrow with a full examination of nano-disperse colloids, homogeneous and heterogeneous nano-structured materials (and their properties), and shelf-organization at the nano-scale. This cutting-edge reference provides information on investigations into non-linear electrokinetic phenomena in nano-sized dispersions and nano-sized biological systems. It discusses application aspects of technological processes in great detail, providing scientists and engineers across all fields with authoritative commentary on colloid and interface science operating at the nanoscale.

Nano-Science: Colloidal and Interfacial Aspects provides an authoritative resource for those wanting to familiarize themselves with current progress as well as for those looking to make their own impact on the development of new technologies and practical applications in fields as diverse as medicine, materials,

and environmental science to name but a few. Whether you call the technology nano or colloids, the field continues to be ripe with opportunity.

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Loughborough University, Leicestershire, UK

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